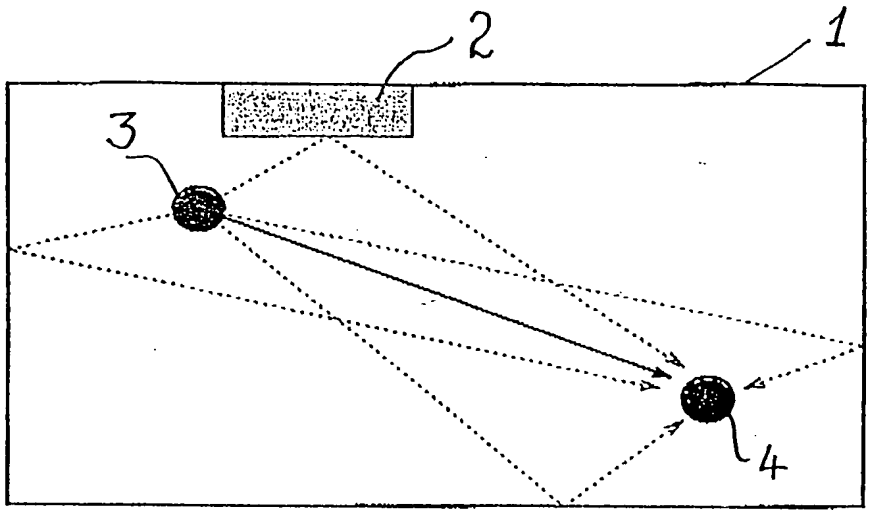

Fig 1:

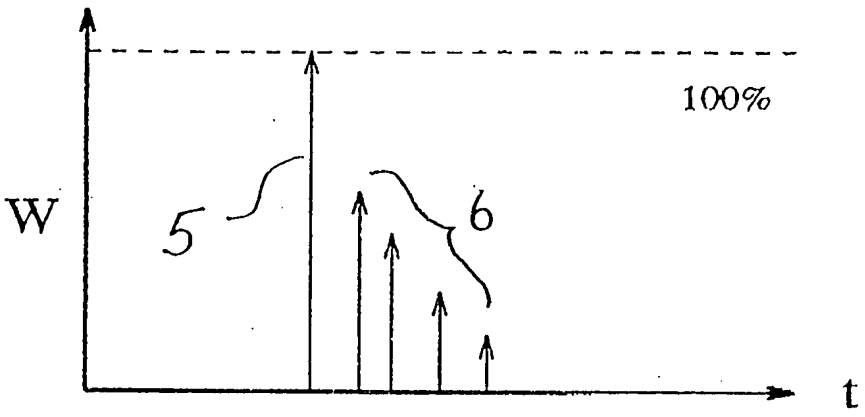

Fig 2:

9-

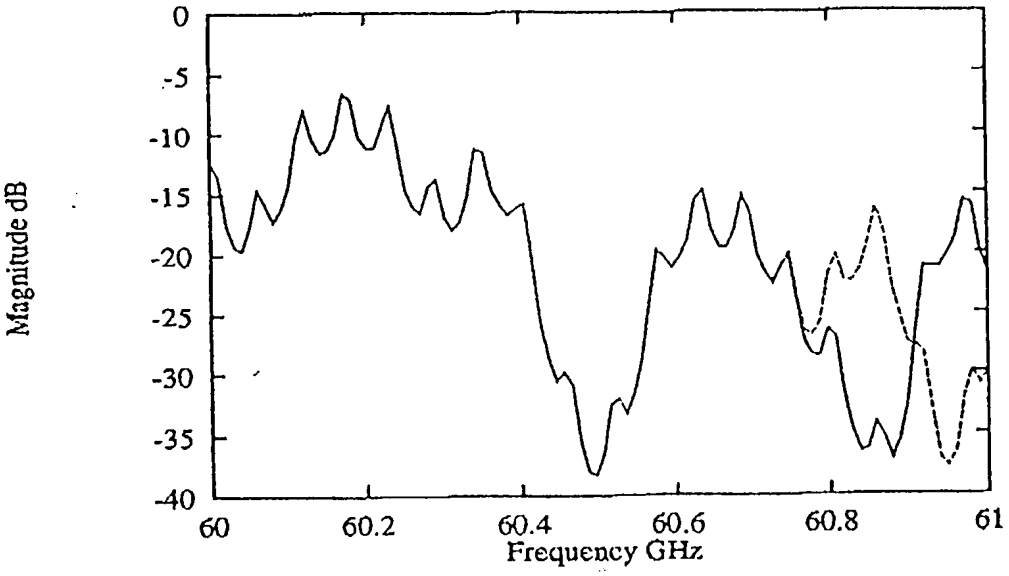
Magnitude dB
0
-5
-10
-15
-20
-25
-30
-35
-40
60
60.2
60.4
60.6
60.8
61
Frequency GHz

Fig 3:

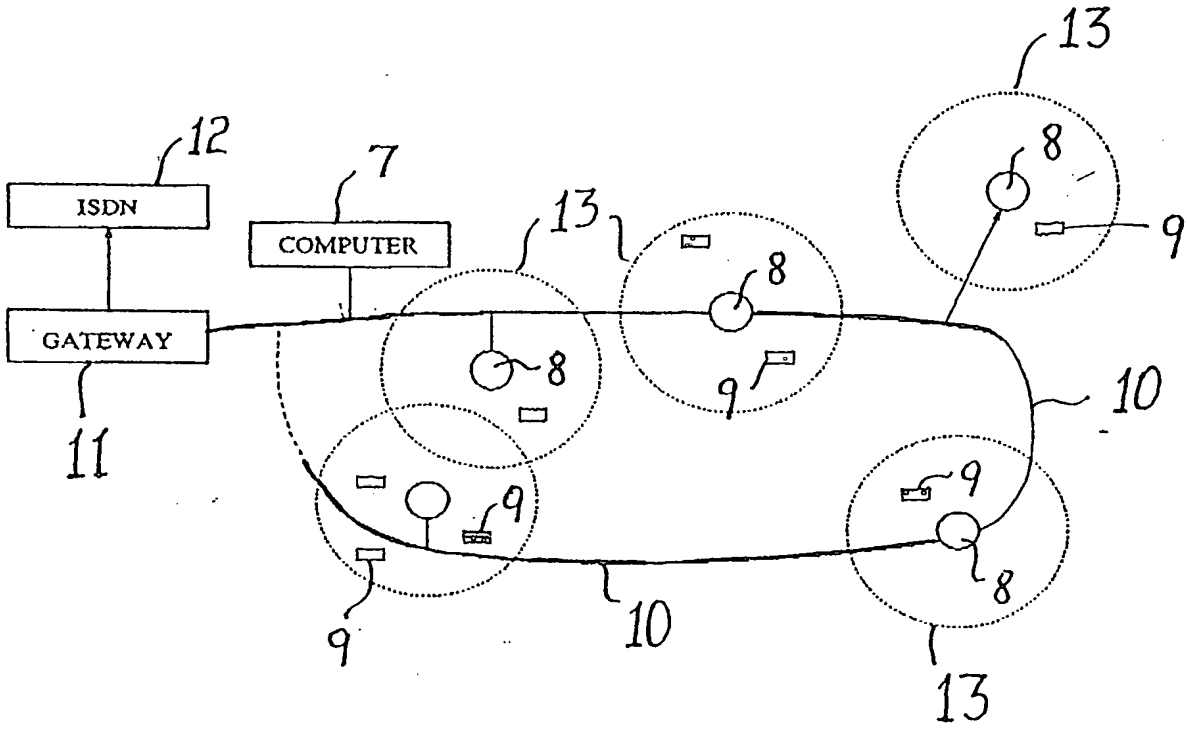

Fig 4:

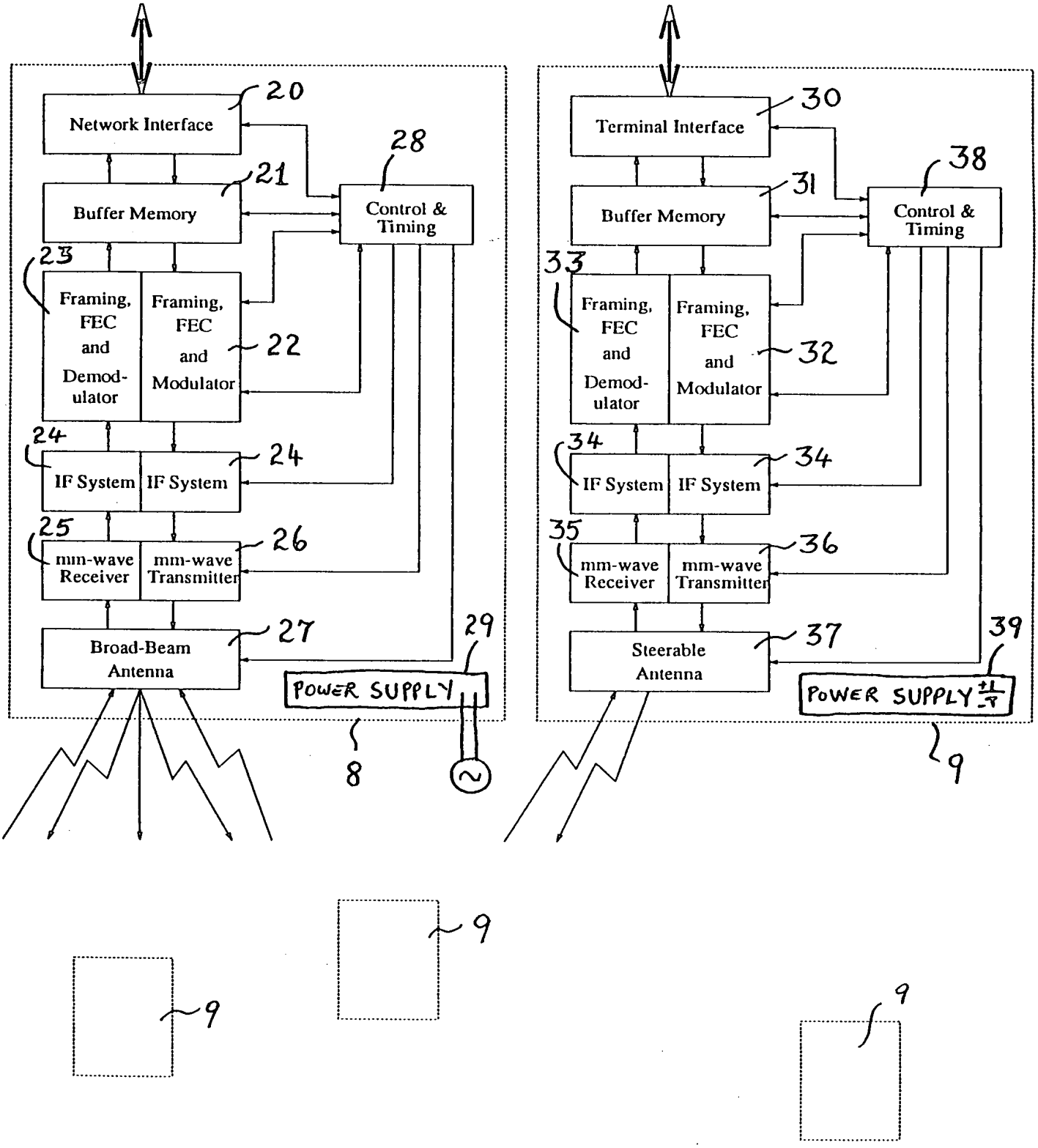
Network Interface
20
Buffer Memory
21
Control & Timing
28
23
Framing, FEC and Demod-ulator
Framing, FEC and Modulator
22
24
IF System
IF System
24
25
mm-wave Receiver
mm-wave Transmitter
26
Broad-Beam Antenna
27
29
POWER SUPPLY
8
Terminal Interface
30
Buffer Memory
31
Control & Timing
38
33
Framing, FEC and Demod-ulator
Framing, FEC and Modulator
32
34
IF System
IF System
34
35
mm-wave Receiver
mm-wave Transmitter
36
Steerable Antenna
37
39
POWER SUPPLY
9
9
9
9

Fig 5

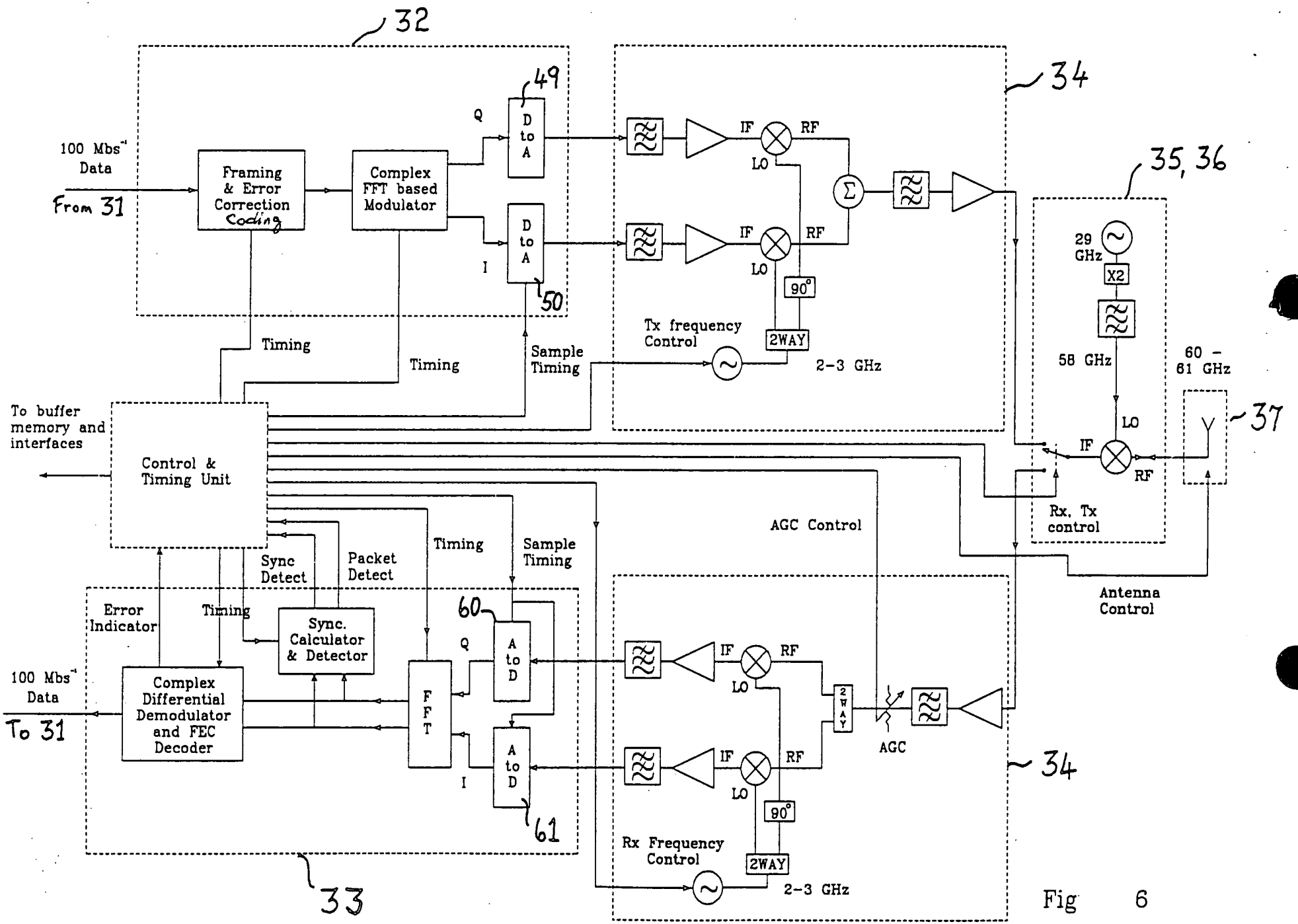

Fig 6

GB 1523715

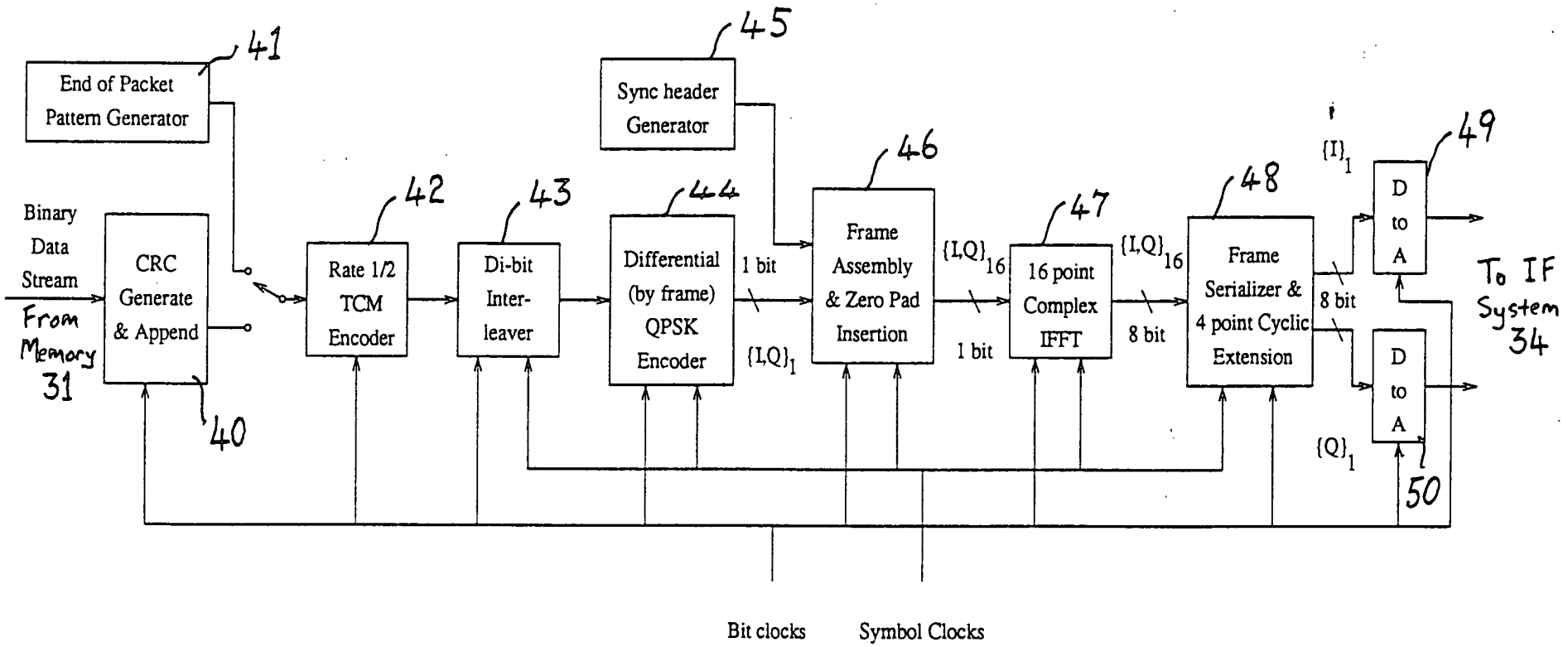

Fig 7

08 15 2005

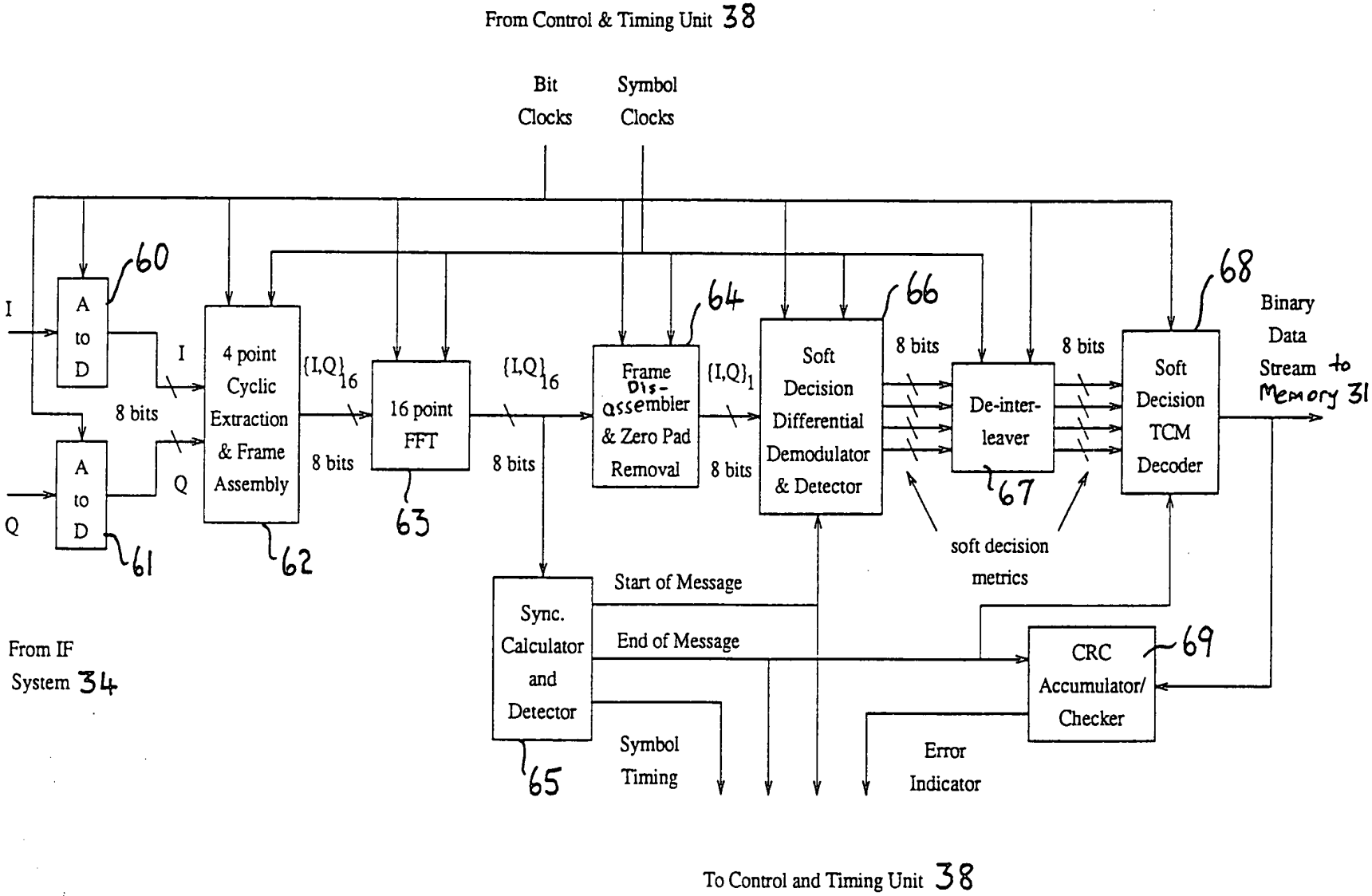

Fig 8

08 157375

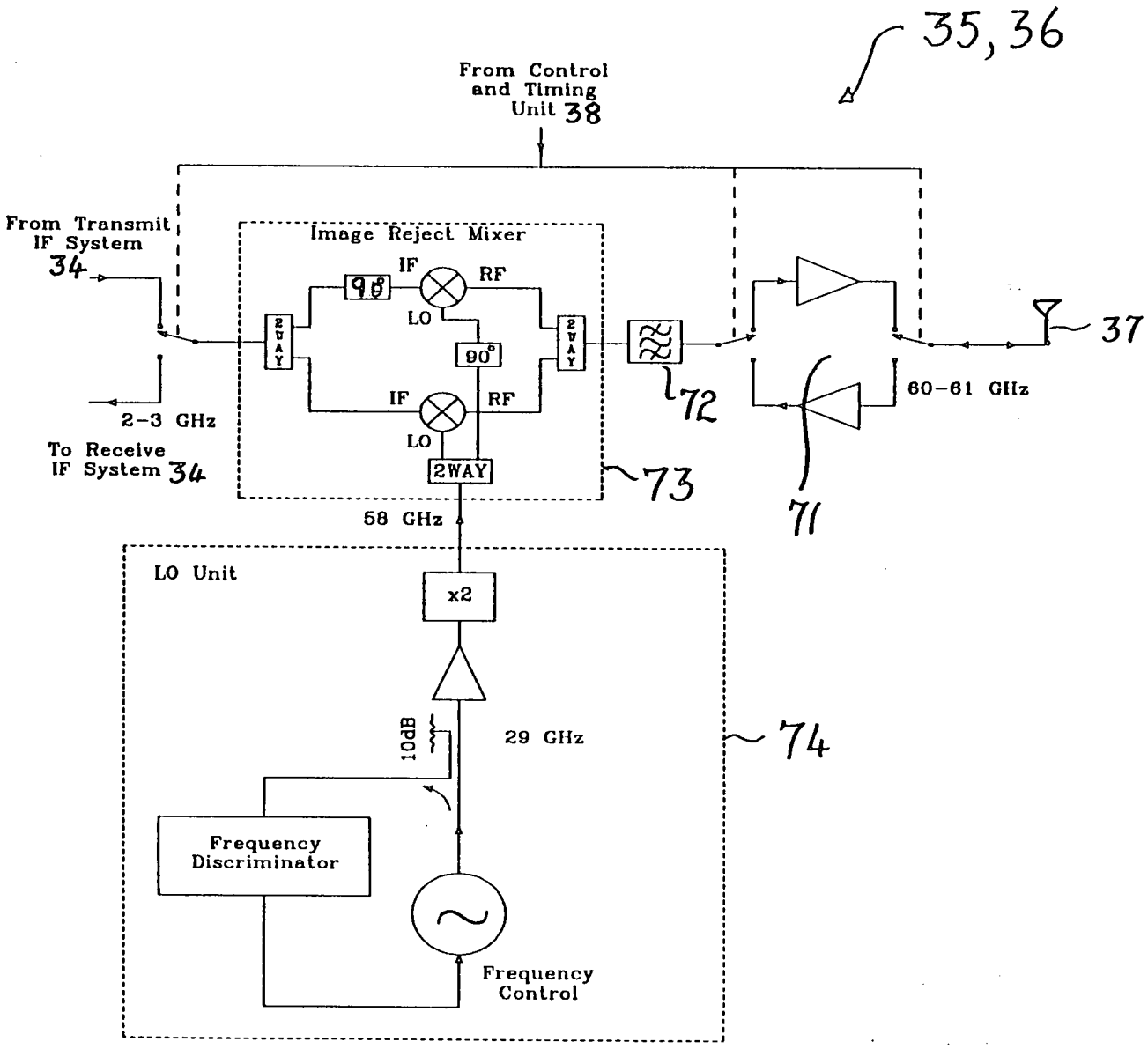
35, 36
From Control and Timing Unit 38
From Transmit IF System 34
Image Reject Mixer
IF
RF
LO
90°
2WAY
2-3 GHz
To Receive IF System 34
72
37
60-61 GHz
71
73
58 GHz
LO Unit
x2
10dB
29 GHz
74
Frequency Discriminator
Frequency Control

Fig 9